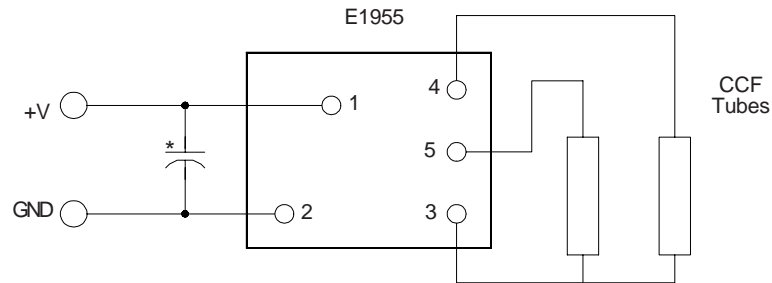
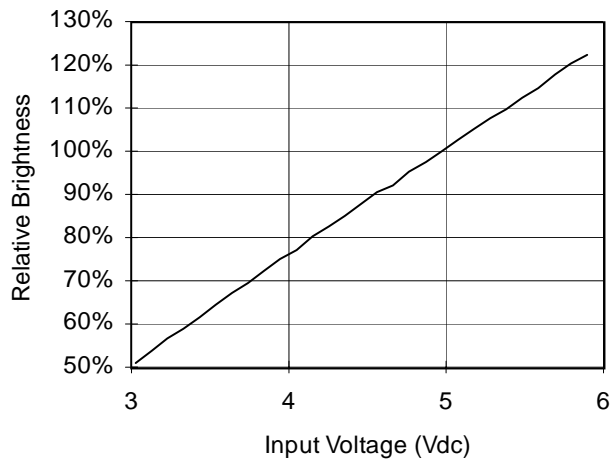


E1955



* Input bypass capacitor may be required (10uf - 100uf)

Relative Brightness vs. Input Voltage



Endicott Research Group, Inc.
2601 Wayne St., Endicott NY 13760
607-754-9187

Made in U.S.A.



Endicott Research Group, Inc.
2601 Wayne St., Endicott NY 13760
607-754-9187 Fax 607-754-9255

Specifications and Applications Information

5/16/97

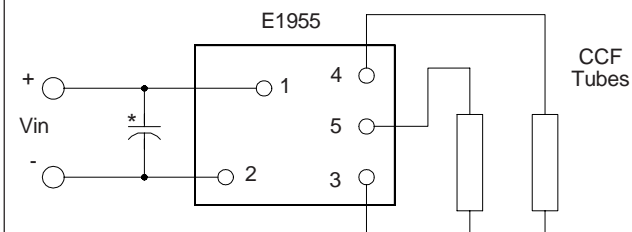
Preliminary

The E1955 (E200II Series) dc to ac inverter is specifically designed to power the Sharp LQ10D421 LCD display to a moderate brightness level from a +5 volt dc source.

The E1955's small size and encapsulated package makes it the ideal power source for applications where small size, high efficiency and reliability are critical.

This inverter is designed to satisfy the most common cold-cathode lighting requirements for the Sharp LQ10D421 LCD display. Custom units, providing different inputs, outputs or package refinements are available.

Connection Diagram



* Input bypass capacitor may be required (10uf - 100uf)

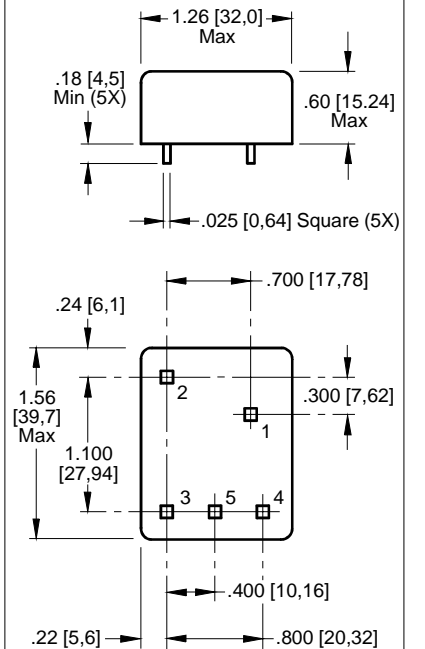
E1955

Two Tube DC to AC Inverter



E200 Package

Package Configuration



- 1. Vin(+)
- 2. Vin(-)
- 3. Vout (common)
- 4. Vout(AC)
- 5. Vout(AC)



E1955

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V _{in}	-0.3 to +6	Vdc
Operating Temperature	T _o	0 to +70	°C
Storage Temperature	T _{stg}	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V _{in}	+3.5 to 5.5	Vdc

Electrical Characteristics

Unless otherwise noted V_{in} = 5.00 Volts dc and T_a = 25°C.

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I _{in}	-	1.5	1.7	A _{dc}
Operating Frequency	F _o	34	39	44	KHz
Minimum Output Voltage	V _{out} (min)	1200	-	-	V _{rms}
Inverter Efficiency	η	-	85	-	%
Tube Operating Current (per tube)	I _o	-	6.0	-	ma _{rms}
Tube Sustaining Voltage ** (per tube in the Sharp LQ10D421 Display)	V _s	-	515	-	V _{rms}

After tube has been allowed to warm-up for 5 minutes

** Measured, not guaranteed.
Specifications subject to change without notice

E1955

Typical Performance Curves

